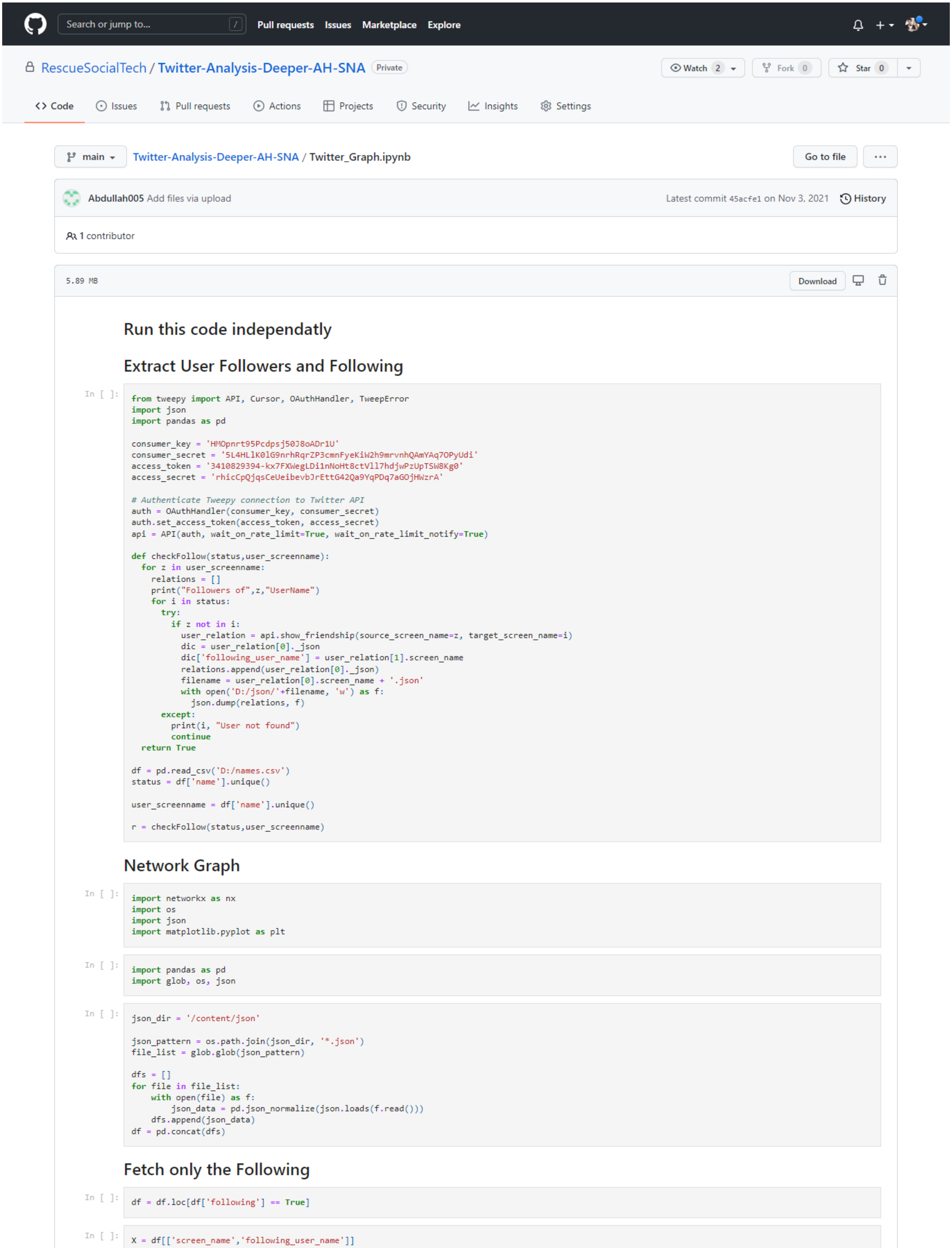


RescueSocialTech / Twitter-Analysis-Deeper-AH-SNA Private

Twitter-Analysis-Deeper-AH-SNA / Twitter_Graph.ipynb

Abdullah005 Add files via upload

Latest commit 45acfe1 on Nov 3, 2021 History

1 contributor

5.89 MB

Run this code independatly

Extract User Followers and Following

In [ ]:

```
from tweepy import API, Cursor, OAuthHandler, TweepError
import json
import pandas as pd

consumer_key = 'HMOpnrt95Pcdpsj50J8oADr1U'
consumer_secret = '5L4HLlK0lG9nrhRqrZP3cmnFyeKiW2h9mrvnhQAmYAq7OPyUdi'
access_token = '3410829394-kx7FXWegLDi1nNoHt8ctVll7hdjwPzUpTSW8Kg0'
access_secret = 'rhicCpQjqsCeUeibevbJrEttG42Qa9YqPDq7aGOjHWzrA'

# Authenticate Tweepy connection to Twitter API
auth = OAuthHandler(consumer_key, consumer_secret)
auth.set_access_token(access_token, access_secret)
api = API(auth, wait_on_rate_limit=True, wait_on_rate_limit_notify=True)

def checkFollow(status,user_screenname):
  for z in user_screenname:
    relations = []
    print("Followers of",z,"UserName")
    for i in status:
      try:
        if z not in i:
          user_relation = api.show_friendship(source_screen_name=z, target_screen_name=i)
          dic = user_relation[0]._json
          dic['following_user_name'] = user_relation[1].screen_name
          relations.append(user_relation[0]._json)
          filename = user_relation[0].screen_name + '.json'
          with open('D:/json/'+filename, 'w') as f:
            json.dump(relations, f)
      except:
        print(i, "User not found")
        continue
  return True

df = pd.read_csv('D:/names.csv')
status = df['name'].unique()

user_screenname = df['name'].unique()

r = checkFollow(status,user_screenname)
```

Network Graph

In [ ]:

```
import networkx as nx
import os
import json
import matplotlib.pyplot as plt
```

In [ ]:

```
import pandas as pd
import glob, os, json
```

In [ ]:

```
json_dir = '/content/json'

json_pattern = os.path.join(json_dir, '*.json')
file_list = glob.glob(json_pattern)

dfs = []
for file in file_list:
    with open(file) as f:
        json_data = pd.json_normalize(json.loads(f.read()))
    dfs.append(json_data)
df = pd.concat(dfs)
```

Fetch only the Following

In [ ]:

```
df = df.loc[df['following'] == True]
```

In [ ]:

```
X = df[['screen_name','following_user_name']]
```

Top 2 User Graph

In [ ]:
```
test = X.loc[(X['screen_name'] == 'DeppSoldier_22') | (X['screen_name'] == 'TeriCarson')]
```

In [ ]:
```
fo = list(test['screen_name'])
```

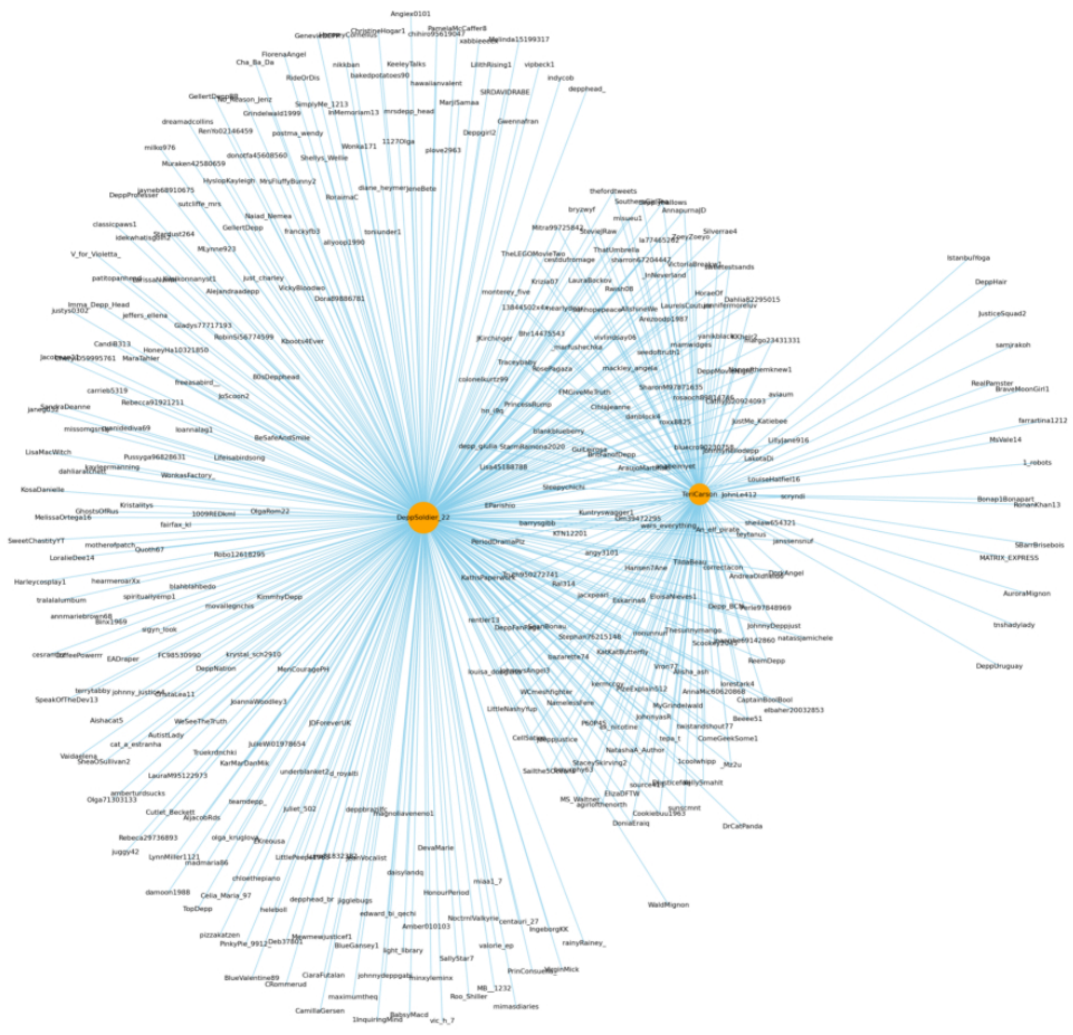
In [ ]:
```
to = list(test['following_user_name'])
```

Network Graph

In [ ]:
```
# Build a dataframe with your connections
df = pd.DataFrame({ 'from': fo, 'to':to})

# Build your graph
G=nx.from_pandas_edgelist(df, 'from', 'to')

# Chart with Custom edges:
fig = plt.figure(1, figsize=(100,100), dpi=40)
nx.draw(G, with_labels=True,nodelist=test['screen_name'].value_counts().index,node_size=test['screen_name'].value_counts().values * 100,node_color=['or
fig.savefig("Graph.png", format="PNG")
```


DeppSoldier_22
TeriCarson
Angiex0101
ChristineHogar1
PamelaMcCaffer8
chihiro95619047
Melinda15199317
FlorenaAngel
Cha_Ba_Da
nikkban
KeeleyTalks
LilithRising1
vipbeck1
RideOrDis
bakedpotatoes90
hawaiianvalent
indycob
depphead_
SIRDAVIDRABE
MarjiSamaa
SimplyMe_1213
Grindelwald1999
InMemoriam13
mrsdepp_head
dreamadcollins
RenYo02146459
postma_wendy
Gwennafran
Deppgirl2
1127Olga
Wonka171
plove2963
milko976
donotfa45608560
Shellys_Wellie
Muraken42580659
HyslopKayleigh
MrsFluffyBunny2
diane_heymer
JeneBete
jayneb68910675
RotaimaC
sutcliffe_mrs
Naiad_Nemea
classicpaws1
GellertDepp
franckyfb3
tonunder1
Stardust264
allyoop1990
MLynne923
V_for_Violetta_
just_charley
VickyBloodwo
Alejandraadepp
Dora89886781
Imma_Depp_Head
justys0302
jeffers_ellena
Gladys77717193
RobinSi56774599
Kboots4Ever
CandiB313
HoneyHa10321850
MaraTahler
80sDepphead
freeasabird__
carrieb5319
JoScoon2
Rebecca91921211
SandraDeanne
loannalag1
BeSafeAndSmile
LisaMacWitch
Pussyga96828631
Lifeisabirdsong
dahliaratchett
WonkasFactory_
KosaDanielle
Kristalitys
GhostsOfRus
1009REDkmi
OlgaRom22
MelissaOrtega16
fairfax_kl
SweetChastityYT
motherofpatch
Quoth67
Robo12618295
LoralieDee14
Harleycosplay1
hearmeroarXx
blahblahbedo
spirituallyemp1
KimmhyDepp
tralalalumbum
movallegnchis
annmariebrown68
Binx1969
sigyn_look
EADraper
FC98530990
krystal_sch2910
DeppNation
MenCouragePH
terrytabby
CristaLea11
SpeakOfTheDev13
JoannaWoodley3
Aishacat5
WeSeeTheTruth
JDForeverUK
AutistLady
cat_a_estranha
JulieW01978654
Truekrdnchki
Vaidaelena
SheaOSullivan2
KarMarDanMik
underblanket2
d_royalti
LauraM95122973
amberturdsucks
Olga71303133
teamdepp_
juliet_502
Cutlet_Beckett
AjacobRds
magnoliaveneno1
Rebeca29736893
olga_kruglova
Ekreousa
juggy42
LynnMiller1121
madmaria86
DevaMarie
chloethepiano
daisylandq
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damoon1988
Celia_Maria_97
HonourPeriod
TopDepp
heleboll
depphead_br
jigglebugs
edward_bi_qechi
NoctrnlValkyrie
centauri_27
Amber010103
IngeborgKX
pizzakatzen
Mewmewjusticef1
PinkyPie_9912
Deb37801
BlueGansey1
light_library
valorie_ep
rainyRainey_
SallyStar7
BlueValentine89
CiaraFutalan
CRommerud
johnnydeppgate
minxyleminx
MB__1232
Roo_Shiller
maximumtheq
mimasdiaries
CamillaGersen
1InquiringMind
BabsyMacd
vic_h_7
thefordtweets
bryzwyf
AnnapurnaJD
misueu1
Mitra99725842
StevieJRaw
Silverrae4
la77465262
ZoeyZoeyo
TheLEGOMovieTwo
ThatUmbrella
cestdufromage
sharron67204447
_InNeverland
Krizia07
LauraBockov
RaeshOB
monterey_five
HoraeOf
Dahlia82295015
13844502x4
Arezoodp1987
jennifermoreluv
JKirchinger
Bhr14475543
vivlindsay06
_marfushechka
mamwidges
seedoftruth1
margo23431331
Traceybaby
RosePagaza
mackley_angela
colonelkurtz99
SharonM97871635
aviaum
FMGiveMeTruth
PrincessRump
Cibiajeanne
danblock4
roxx8825
hn_i8q
JustMe_Katiebee
blankblueberry
LillyJane916
depp_giulia
StarmRamona2020
BritanofDepp
LakotaDi
Lisa45188788
LouiseHatfiel16
Sleepychichi
johnLe412
scryndi
EParishio
Kuntryswagger1
Om39472295
barrysgibb
wars_everything
An_elf_pirate
sheilaw654321
KTN12201
teytanus
janssensnuf
PeriodDramaPlz
angy3101
TildaBeau
correctacon
Hansen7Ane
DorkAngel
AndreaDidNot
Ral314
jackpearl
Eskarina9
EloisaNieves1
Depp_BCN
Perle97848969
rentier13
JohnnyDeppjust
Thesunnymango
Stephan76215148
natassjamichele
KatKatButterfly
lazarette74
ReemDepp
Vron77
Alisha_ash
lorestark4
WCmeshfighter
AnnaMic60620868
CaptainBooBool
NamelessFere
LittleNashyYup
MyGrindelwald
elbaher20032853
JohnnyasR
Beeee51
P60P45
twistandshout77
CellSatan
tepa_t
ComeGeekSome1
NatashaA_Author
StaceySkirving2
1coolwhipp
_Mz2u
source411
ElizaDFTW
MS_Waltner
agirlofthenorth
sunscmnt
Cookiebuu1963
DoniaEraiq
DrCatPanda
WaldMignon
IstanbulYoga
DeppHair
JusticeSquad2
samjrakoh
RealPamster
BraveMoonGirl1
farrartina1212
MsVale14
1_robots
Bonap1Bonapart
RonanKhan13
SBarrBrisebois
MATRIX_EXPRESS
AuroraMignon
tnshadylady
DeppUruguay